

**Computers and Control Systems: Symptom Related Diagnostic Procedures**  
**Step 2: No DTC(s) Present Symptom Chart Index**

**Step 2: No Diagnostic Trouble Codes (DTCs) Present Symptom Chart Index**

System / Symptom		OASIS Number	Chart Number
------------------	--	--------------	--------------

**Driveability**

Starting Concerns	Hard Start/Long Crank/Erratic Start/Erratic Crank	602300	Chart Number: 2
	No crank	601300	Chart Number: 23
	No start (engine cranks)	603300	Chart Number: 3
Unique Idle Concerns	Slow return to idle	617400	Chart Number: 4
	Rolling idle	618400	Chart Number: 1
	Fast idle	619400	Chart Number: 5
	Low/Slow idle	607400	Chart Number: 6

**Driveability - Performance While Driving Concerns**

Stalls/Quits	Idle/Acceleration/Cruise	607x00	Chart Number: 1
	Deceleration	607700	Chart Number: 6
	Stall after start	607000	Chart Number: 1
Runs Rough		608x00	Chart Number: 1
Misses		609x00	Chart Number: 1
Buck/Jerk		610x00	Chart Number: 1
Hesitation/Stumble		611x00	Chart Number: 1
Surge		612x00	Chart Number: 1
Backfires		613x00	Chart Number: 7
Lack/Loss of Power		614x00	Chart Number: 8
Spark Knock		615x00	Chart Number: 9

**Note:** OASIS identifiers (the x means any number (1-9) can be used) xxx4xx equals during idle, xxx5xx equals during acceleration, xxx6xx equals during cruise, xxx7xx equals during deceleration.

(Continued)

## Step 2: No Diagnostic Trouble Codes (DTCs) Present Symptom Chart Index

System / Symptom	OASIS Number	Chart Number	
<b>Additional Driveability Concerns</b>			
Diesels/Runs On	621000	Chart Number: 5	
Poor Fuel Economy	622000	Chart Number: 10	
Emissions Compliance	623000	Chart Number: 11	
<b>Electrical</b>			
Warning Indicators	Malfunction indicator lamp (MIL)	698298	Chart Number: 12
	Transmission control indicator lamp (TCIL)	698298	Chart Number: 12
	Power take off (PTO)	507000	Chart Number: 12
	Temperature warning indicator or gauge (for vehicles equipped with a cylinder head temperature (CHT) sensor only)	206000	Chart Number: 12
	Check fuel cap indicator	206000	Chart Number: 12
Climate Control	Powertrain malfunction indicator (wrench)	698298	Chart Number: 12
	Lack of A/C cooling, A/C not functioning	208200	Chart Number: 21
Instrumentation	A/C always on or A/C compressor runs continuously	208999	Chart Number: 21
	Tachometer inoperative	204000	Chart Number: 14
Engine	Speedometer/odometer inoperative	204000	Chart Number: 14
	Boost gauge indicates higher than normal boost	204000	Chart Number: 14
	Fuel gauge inoperative	204000	Chart Number: 14
Oil System Concerns	High oil consumption	401000	Chart Number: 15
	Leaks	401000	Chart Number: 15

(Continued)

## Step 2: No Diagnostic Trouble Codes (DTCs) Present Symptom Chart Index

System / Symptom		OASIS Number	Chart Number
<b>Engine (Continued)</b>			
Cooling System Concerns	Electric cooling fan(s) does not operate (low, medium, high or variable speed)	402000	Chart Number: 16
	Cooling fan clutch does not operate	402000	Chart Number: 16
	Electric cooling fan(s) always runs	402000	Chart Number: 17
Exhaust System Concerns	Visible smoke	403000	Chart Number: 18
	Odor (sulfur or rotten egg smell)	403000	Chart Number: 22
Fuel System Concerns	Odor, engine compartment	404000	Chart Number: 19
Engine Noise (under hood)		497000	Chart Number: 20
<b>Driveline</b>			
Automatic Transmission (A/T) Shift Concerns	Upshift	501000	Chart Number: 13
	Downshift	502000	Chart Number: 13
	Engagement	503000	Chart Number: 13
<b>Power Take Off (PTO)</b>			
PTO Concerns	Not working correctly	507000	Chart Number: 12